PATENT

Claim Amendments:

Please amend the claims as indicated:

Claims 1-5 (Previously Cancelled)

- (Currently Amended) A method of fabricating a semiconductor transistor comprising the steps of:
 - providing a gate structure having a sidewall portion and a top portion, said gate structure formed on a substrate;
 - forming a dielectric spacer formed over the substrate, said dielectric spacer forming an Lshape comprising a vertical portion parallel to the sidewall portion, and a horizontal portion approximately orthogonal to the sidewall portion of the gate structure;
 - forming a first source/drain region in the substrate during a source/drain implant using an implant species selected from the group-of indium and antimony, wherein the first source/drain region formed underneath the horizontal portion of the L-shaped dielectric spacer; and
 - forming a second source/drain region in the substrate during the source/drain implant using the implant species, wherein the second source/drain region is immediately adjacent the first source/drain region and has a depth greater than a depth of the first source/drain region.
- (Previously Amended) The method of claim 6, further including a step of forming a liner oxide over said gate structure prior to the step of forming the dielectric spacer.
 - 8. (Previously Cancelled)
 - 9. (Cancel)
 - 10. (Previously Cancelled)
 - 11. (Cancel)

- (Previously Amended) The method of claim 6 wherein said L-shaped dielectric spacer is a nitride.
- 13. (Previously Amended) The method of claim 6 wherein the length of the horizontal portion of the L-shaped dielectric spacer ranges from about 200 Angstroms to about 500 angstroms.
- 14. (Currently Amended) A method of fabricating a semiconductor transistor comprising the steps of:

forming a source/drain extension having an average extension depth

- forming a first portion of a source/drain region underlying a horizontal midpoint location
 of a sidewall spacer of the semiconductor transistor, the first portion of the
 source/drain region having a first average depth and a first length; and
- forming a second portion of the source/drain region simultaneously in time with the first portion, wherein the second portion has a second average depth and a second length, wherein the second average depth is greater than the first average depth, and the first average depth is greater than the average extension depth.
- 15. (New) The method of claim 14, wherein forming the first portion further comprises the horizontal midpoint location being at a horizontal portion of an L-shaped sidewall spacer, the horizontal portion being approximately orthogonal a sidewall portion of a gate of the semiconductor transistor.
- 16. (New) The method of claim 14, wherein the first length is substantially equal to a length of the horizontal portion of the L-shaped sidewall spacer.

- 17. (New) A method of fabricating a semiconductor transistor comprising the steps of: providing a gate structure having a sidewall portion and a top portion, said gate structure formed overlying a substrate;
- forming a dielectric spacer formed overlying the substrate, said dielectric spacer forming an L-shape comprising a vertical portion parallel to the sidewall portion, and a horizontal portion approximately orthogonal to the sidewall portion of the gate structure:
- forming a first source/drain region in the substrate during a source/drain implant, wherein the first source/drain region is formed by implanting a dopant through the horizontal portion of the L-shaped dielectric spacer; and
- forming a second source/drain region in the substrate during the source/drain implant using the implant species, wherein the second source/drain region is immediately adjacent the first source/drain region and has a depth greater than a depth of the first source/drain region, wherein forming the second source/drain and the first source/drain occurs simultaneously.
- 18. (New) The method of claim 14, wherein
- forming the first portion comprises implanting a dopant in the first portion through the sidewall spacer; and
- forming the second portion comprises implanting the dopant in the second portion simultaneously with implanting the dopant in the first portion.